

WHAT IS CLAIMED IS:

1. An image processing apparatus comprising:
image pickup means for producing image data by
photographing an image;
5 first storage means for storing image data
obtained by said image pickup means;
size reduction means for reducing the size of the
image data stored in said first storage means after
reading out the image data;
10 second storage means for storing, in a unit
corresponding to a predetermined number of lines, the
size-reduced image data obtained by said size reduction
means; and
single compression means for alternately
15 performing, according to a predetermined switching
timing, first compression processing to read out the
image data stored in said first storage means and to
compress the image data without reducing the size, and
second compression processing to compress the size-
20 reduced image data stored in said second storage means
to obtain two kinds of compressed data representing one
photographed image.
2. An apparatus according to Claim 1, wherein
25 said size reduction means includes means for converting
the format of the image data.

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3. An apparatus according to Claim 1, further comprising third storage means for enabling the two kinds of compressed data corresponding to one photographed image and obtained by said first compression processing and said second compression processing to be managed by being related to each other.

4. An apparatus according to Claim 1, wherein
10 said compression means comprises JPEG coding.

5. An image processing apparatus comprising:
first storage means for storing input image data;
size reduction means for reducing the size of the
15 image data stored in said first storage means after
reading out the image data;
second storage means for storing, in a unit
corresponding to a predetermined number of lines, the
size-reduced image data obtained by said size reduction
means; and
20 single compression means for alternately
performing, according to a predetermined switching
timing, first compression processing to read out the
image data stored in the first storage means and to
compress the image data without reducing the size, and
25 second compression processing to compress the size-
reduced image data stored in the second storage means

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to obtain two kinds of compressed data representing one
photographed image.